BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- ***Detailed Estimate for the Improvements of Roads and Drains in Amruthahalli A.Manjunath House Roads in SC Colony Amruthahlli in Ward no 07 Byatarayanpura, Kodigehalli sub division***

Sl No	Description of work	Unit	No	Length	Breadth	Depth	ESTIMATED COST Quantity	Rate in Rs	2950000.00 Amount in Rs
1	KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3. p. no 138, i. no : 19.1, SR: 2014-15	Cum							
	Amruthahalli Temple Road		1	197	0.9	0.6	106.38		
	Amruthahall Cross Road		2	165	0.9	0.6	178.20		
							284.58	75.60	21514.00
	Basic Rate Rs.	70.00							
	Add 8% A.W Rs.	5.60							
	Total Rate Rs.	75.60							
2	KSRRB M300-52.1. Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all lifts and leads upto 1000 metres complete as per specifications.MORTH Specification No. 305.4.3 (P-144, Item No. 19.58 SR 2014-15)	Sqm							
	Amruthahalli Temple Road		1	197	6.00		1182.00		
	Amruthahall Cross Road		2	165	6.00		1980.00		
							3162.00	18.36	58054.00
	Basic Rate Rs.	17.00							
	Add 8% A.W Rs.	1.36							
	Total Rate Rs.	18.36							
3	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. (145, I.No. 19.64)	Sqm							
	Amruthahalli Temple Road		1	197	6.00		1182.00		
	Amruthahall Cross Road		2	165	6.00		1980.00		
							3162.00	4.48	14172.00
	Basic Rate	4.15							
	Area Weightage @ 8%	0.332							
	Total	4.48							
4	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. (P. 154 Item No. 20.18)	Cum							
	Amruthahalli Temple Road		1	197	6.00	0.3	354.60		
	Amruthahall Cross Road		2	165	6.00	0.3	594.00		
							948.60	1438.56	1364618.00
	Basic Rate Rs.	1332.00							
	Add 8% A.W Rs.	106.56							
	Total Rate Rs.	1438.56							
5	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. (P. 157, Item No. 21.6)	Sqm							
	Amruthahalli Temple Road		1	197	6.00		1182.00		
	Amruthahall Cross Road		2	165	6.00		1980.00		
							3162.00	35.21	111328.00
	Basic Rate Rs.	32.60							
	Add 8% A.W Rs.	2.61							
	Total Rate Rs.	35.21							

7	KSRRB M500-19. Providing and laying bituminous concrete Using crushed agregate of spacifying grading , premixed with bituminious binder and filler , transporting the hot mx to work site , laying with paver finisher to the required grade , level and allignment , rolling with the smooth wheeled vibrator and tandem rollers to archive the desired compaction as per MORTH specification clause no 509 complete in all respects complete as per specification -do- using 40/60 TPH capacity H.M.P with sensor paver Gr - 1 (50mmto 60mm) with 5.5% CRMB 55 (P 161 item no 21.23.3)							Cum		
	Amruthahalli Temple Road		1	197	6.00	0.03	35.46			
	Amruthahall Cross Road		2	165	6.00	0.03	59.40			
							94.86	12139.20	1151525.00	
	Basic Rate Rs.	11240.00								
	Add 8% A.W Rs.	899.20								
	Total Rate Rs.	12139.20								
8	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (P. 5, I.No. 2.3) SR-2014-15							Cum		
	C.DS		2	8.00	1.80	0.90	25.92			
							25.92	176.04	4563.00	
	Basic Rate	163								
	Area Weightage @ 8%	13.04								
	Total	176.04								
9	KSRB 4-1.2: Providing and laying in position plain cement concrete of I mix M10 With OPC cement @ 220 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P. 12, I.No. 4.2) SR-2014-15							Cum		
	C.DS		2	8.00	1.80	0.15	4.32			
							4.32	5064.12	21877.00	
	Basic Rate	4689								
	~~4689~~	~~4689~~								
	Area Weightage @ 8%	375.12								
	Total	5064.12								
10	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (P. 23, I.No. 5.6) SR-2014-15							Cum		
	C.DS		2	8.00	0.60	0.60	5.76			
							5.76	3836.16	22096.00	
	Basic Rate	3552								
	~~3552~~	~~3552~~								
	Area Weightage @ 8%	284.16								
	Total	3836.16								
11	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (P 15, I.No 4.28) SR-2014-15							Sqm		
	C.DS		4	8.00	0.30		9.60			
	Side		4	1.80	0.30		2.16			
							11.76	236.52	2781.00	
	Basic Rate	219								
	Area Weightage @ 8%	17.52								
	Total	236.52								
12	KProviding and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges)Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-3320Kg/cum) (P. 18, I.No. 4.49.1) SR-2014-15							Cum		
	C.DS		2	8.00	1.80	0.30	8.64			
							8.64	5847.12	50519.00	
	Basic Rate	5414								
		5414								
	Area Weightage @ 8%	433.12								
	Total	5847.12								

13	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (P. 17 I.No. 4.46) SR-2014-15						Ton		
	C.DS		2	8.00	1.80	0.30	8.64		
							8.64		
	8.64x100Kg/Cum						864.00		
							0.86	78351.84	67383.00
	Basic Rate	72548							
	Area Weightage @ 8%	5803.84							
	Total	78351.84							
14	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.109.I.No. 15.3) SR-2014-15						Sqm		
	C.DS		2	8.00		0.60	9.60		
							9.60	92.88	892.00
	Basic Rate	86							
	Area Weightage @ 8%	6.88							
	Total	92.88							
15	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 5.00 Km (Page No.141)							Cum	
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg	Qty vide Item No.1				--	284.58	72.71	20692.00
	Basic Tate Lead Charges upto 2.00 Kms	62.2							
	2x1.28x2 =	5.12							
	Loading and unloading	67.32							
	Average Weight of earth 1.28 tone/kg for 6x1.20x2.00=12.00	5.3856							
		72.7056							
	Sub Total								2912014.00
16	Third party inspection charges 1%								29120.00
17	Miscelleneous & Rounding off								8866.00
								Toatl Rs.	2950000.00
	(Rupees:- Twenty NiNE Lakh Fifty Thousand Only)								

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2014-2015.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Junior Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

Sanction for Rs.
Administrative Approval
Accorded for Rs 29.50 lakhRs
is accorded under head
P1878
registered as CE No. 134 Dt: 11.02.15 Subject
to Conditions contained in enclosed memo
No. / Dr.
AE/JE TA SE (BTP) CE (BTP)

Technical Sanction for Rs. 29.50 Lakhs.
Twenty Nine Lakhs Fifty Thousand only.
Registered as EE No. 11 Dated Subject
to conditions contained enclosed memo.
No: SE/TS/47/2014-15 47 Dr 11/02/15
AEE 11/02
EE (BTP.DIV.)